

RECEIVED

2	BEFORE THE ARIZON POWER PLANTEAND Public 10 TRANSMISSION LINE SITING COMMITTEE		
3		AZ CORP COMMISSION DOCUMENT CONTROL	
4	IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY IN) DORAWEMI GOMMA	
5	CONFORMANCE WITH THE REQUIREMENTS OF ARIZONA REVISED STATUTES	Docket No: L-00000D-03-0122	
6	SECTION 40-360, et seq., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILTY))	
7	AUTHORIZING THE WEST VALLEY-SOUTH))	
8	230 KV TRANSMISSION LINE PROJECT, INCLUDING THE CONSTRUCTION OF) Case No: 122	
9	APPROXIMATELY 18 MILES OF 230 KV TRANSMISSION LINES AND THREE))	
10	230 KV SUBSTATIONS IN MARICOPA COUNTY, ARIZONA, ORIGINATING))	
11	AT THE PROPOSED TS2 SUBSTATION IN SECTION 19 TOWNSHIP 1 NORTH, RANGE 2,	Arizona Corporation Commission	
12	WEST, G&SRB&M AND CONTINUING TO THE PROPOSED TS3 SUBSTATION IN) DOCKETED	
13	SECTION 22, TOWNSHIP 2, NORTH, RANGE 3 WEST, G&SRB&M AND	SEP 1 5 2003	
14	TERMINATING AT THE EXISTING 230 KV TRANSMISSION LINE THAT WILL	DOCKETED BY	
15	INTERCONNECT WITH THE PROPOSED TS4 SUBSTATION IN SECTION 28, TOWNSHIP 3		
	NORTH, RANGE 2 WEST, G&SRB&M		
16	PRE-HEARING MEMORA	A NIDI IM	
17			
18	Pursuant to the Arizona Power Plant and Transm	ission Line Siting Committee (the	
19	"Committee"\ August 27, 2002 Procedural Order, Appl	icant Arizona Dublic Sarvica	
20	"Committee") August 27, 2003 Procedural Order, Appl	icani Anzona Fuone Service	
21	Company files the following materials:		
22	I. Witnesses and Exhibits		
23	In addition to the witnesses and exhibits p	provided in the Applicant's August	
24			
25	4, 2003 Supplemental Packet ("Supplemental Packet No	o. 1"), Applicant is now providing	
26			

an additional supplemental packet ("Supplement Packet No. 2") containing the following additional exhibits:

- 1. A map showing the 6,000 foot corridor for the Proposed and Alternative system options;
- 2. Photographic simulations showing the view of the proposed transmission line and TS2 substation from the White Tanks Mountain Regional Park;
- 3. The power point presentation of Marty Eroh on EMF.

Applicants only additional witness will be Mr. Eroh, although the Applicant still needs to complete the direct testimony of Mr. Simpson.

II. The Beardsley Canal

Maricopa Water District ("MWD") testified that it opposes siting a transmission line on its property along the Beardsley Canal. Because MWD is a governmental entity, legal questions are raised about Applicant's ability to condemn MWD property. In that regard, Applicant asks the Committee to take administrative notice of Arizona Attorney General Opinion No. 186-080. Because other environmentally compatible routes are available that do not require time consuming litigation to determine Applicant's right to possession, the Applicant did not propose a route along the Beardsley Canal. Applicant urges that the Committee select from the options presented by the Applicant, both of which can be built in a timely fashion without the delay caused by litigating novel questions of Arizona law.

III. Form of CEC Order

Applicant submitted a form of order in Supplemental Packet No. 1. After conferring with other intervenors in this case, Applicant maintains that its proposed Order should be adopted. None of the intervenors propose any modifications to the Applicant's Certificate of Environmental Compatibility ("CEC") conditions, but certain intervenors proposed modifications to the route. Both the south of Olive Avenue property owners and the Cortessa developers propose terminating the route at Olive Avenue and Loop 303 or Olive Avenue and Cotton Lane and propose moving the TS2 substation to that termination point. The south of Olive Avenue property owners will, however, accept the Proposed system option north of Olive Avenue if the Committee does not terminate the transmission line at Olive Avenue and Loop 303 or Cotton Lane.

Terminating the line as proposed by these two intervenors is not in the public interest. As described by Applicant witness, Mr. Robert Smith, the transmission line is sited to the west to serve load in that area and so that it may eventually interconnect to other transmission line and substation projects that will be west of the Loop 303. These future projects are described in the Ten Year Plan that has been filed with the Arizona Corporation Commission. The Applicant proposes that the transmission line be on the north side of Olive Avenue, thereby avoiding the existing residents on the south side of Olive Avenue. Future developments on the north of Olive Avenue, such as Cortessa, can mitigate the impact of the transmission line because they are in the early planning and design stages. If the Committee terminates the project at Olive Avenue and Loop 303, a

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future line siting proceeding will be needed to site a transmission line to the west. It will be more difficult in a future case because additional developments will have been built and planned and property owners and developers will lose the capacity to plan for the transmission line project route. There likely will be developments along Olive Avenue, along Peoria Avenue and along Cactus Roads as evidenced by the General Plans for the areas. Applicant urges the Committee not to postpone a decision in this case because it will only be more difficult in the future due to siting constraints.

Maricopa County Parks and Recreation Department concerns about the transmission line do not compel rejection of the Olive Avenue route. The TS2 substation was moved north of Olive Avenue to address their concerns. The transmission line itself turns north of Olive Avenue a mile and one-half from the Park's entrance. As the photographic simulations that Mr. Simpson will present will demonstrate, the proposed transmission line and substation will be only slightly visible from the Park and not noticeable to most Park visitors. Another mitigating factor is that ultimately there will be homes between the Park and the transmission line and substation.

DATED this 15th day of September, 2003.

LEWIS AND ROCA LLP

Thomas H. Campbell

40 N. Central Avenue Phoenix, Arizona 85004

AND –

By

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6	ORIGINAL and twenty-five (25) copies of the foregoing filed this 15 th day of September, 2003, with:	
7	September, 2003, with:	
8	The Arizona Corporation Commission Utilities Division – Docket Control	
9	1200 W. Washington Street Phoenix, Arizona 85007	
10		
11	COPY of the foregoing hand-delivered this 15 th day of September, 2003, to:	
12	David M. Ronald Legal Division	
13	Arizona Corporation Commission 1200 W. Washington Street	
14	Phoenix, Arizona 85007	
15	COPY of the foregoing mailed this 15 th day of September, 2003, to:	
16	Laurie Woodall, Chairman	
17	Arizona Power Plant and Transmission Line Siting Committee	
18	Office of the Attorney General 1275 W. Washington Street	
19	Phoenix, Arizona 85007	
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WEST VALLEY-SOUTH

Power Line and Substation Project

WEST VALLEY-SOUTH





Application for a Certificate of Environmental Compatibility

SUPPLEMENTAL PACKET #2



Submitted by



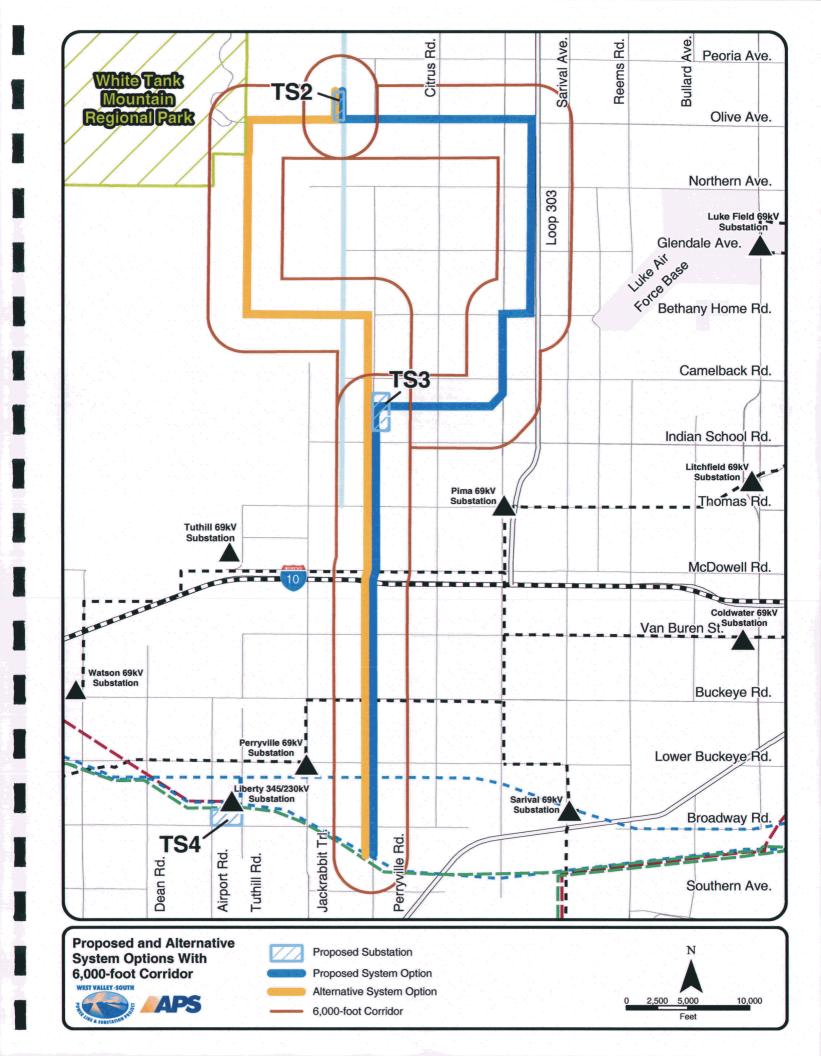
September 2003

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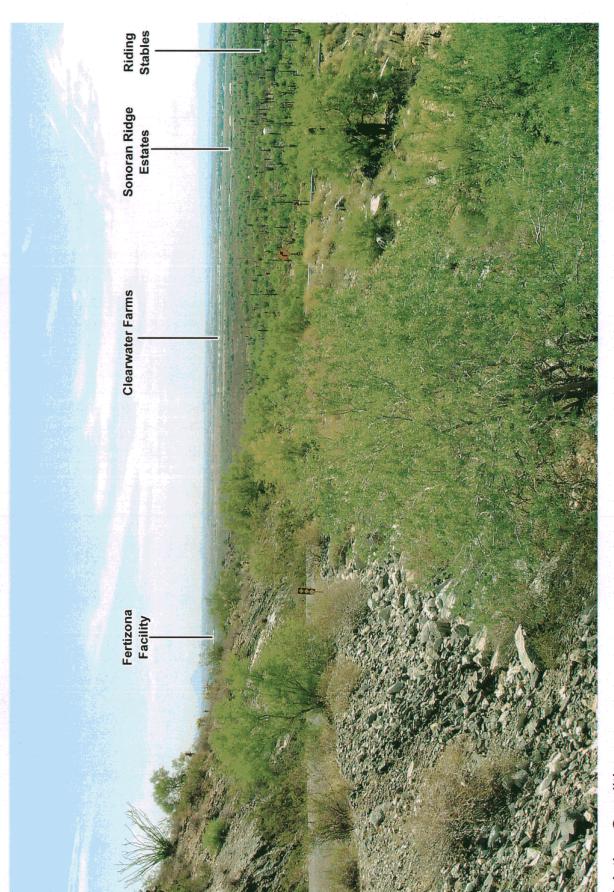
SECTION I

Map of the Proposed and Alternative System Options with 6,000-foot Corridor

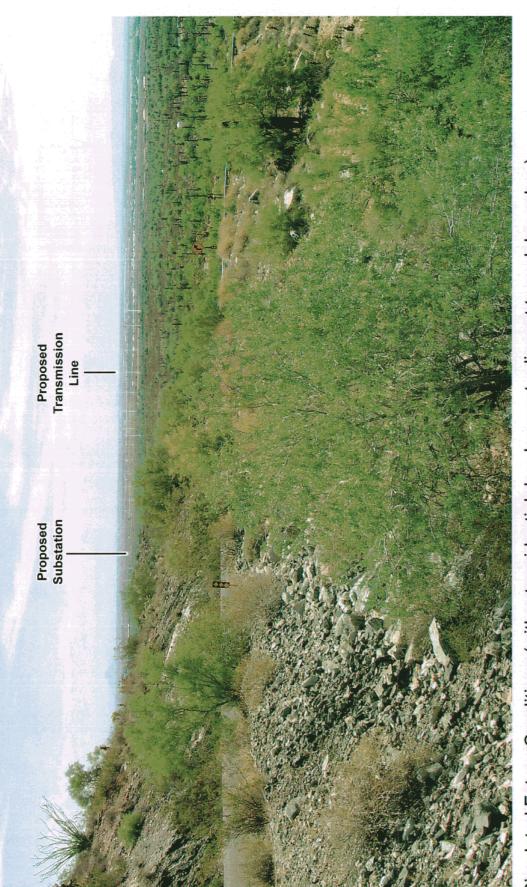


SECTION II

Visual Simulations from within the White Tank Mountain Regional Park



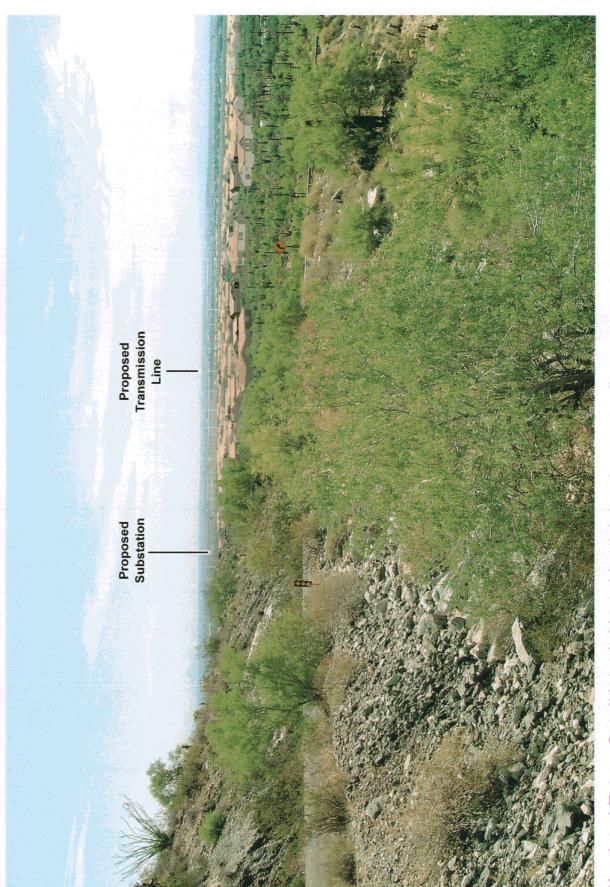
Existing Conditions



Simulated Future Conditions (without residential development adjacent to park boundary)



View from White Tank Mountains Regional Park



Simulated Future Conditions (with residential development adjacent to park boundary)



Simulated Future Conditions (150% zoom with residential development adjacent to park boundary)

View from White Tank Mountains Regional Park



SECTION III

Testimony Presentation Slides

60 Hertz Electric and Magnetic Fields **Brief Update**

Marty Eroh

Scientist/Industrial Health Consultant Arizona Public Service Senior Environmental





Witness Background

- Educational background
- BS Toxicology, Philadelphia College of Pharmacy and
- MS Industrial Hygienist / Toxicology, University of Arizona
- Professional background
- Environmental, Health and Safety Department - 17 years of experience with APS' Corporate
- 15 years of extensive involvement with EMF
- Certified Industrial Hygienist CIH





Electromagnetic Fields

- Electromagnetic fields found wherever there is electricity
- Power lines, building wiring, appliances
- E Fields function of voltage (kV/m)
- Magnetic fields function of current (mG)
- Strength of both fields decrease rapidly with distance from the source





Overall Status of Health **Effects Research**

- Research dates back to the 1970s
- No known health effect at commonly encountered field strengths, similar to those found directly under high voltage power lines
- There are no applicable exposure limits at a federal or state level
- General public exposure guidelines:
- ICNIRP = 833 mG
- IEEE = 9,000 mG





California Report

- Primarily a literature review
- Provides opinions of three scientists all with epidemiological backgrounds
- Does not conclude that fields cause cancer





APS' Response

- Understand that this is a concern to our customers and employees
- Share information
- Take measurements upon request
- Support research
- Minimize fields from new lines by phase arrangement



